HP VCX V6000/V6100 Enterprise Branch Communications Series

Product overview

HP VCX V6000/V6100 Enterprise Branch Communications Series platforms feature compact form factors that provide smaller sites of medium- to large-sized enterprises with cost-effective, carrier-class Voice over IP (VoIP) services. The platforms deliver advanced Session Initiation Protocol (SIP)-based applications and integrated digital or analog VoIP gateways to HP VCX V7000 unified communication series branch offices with up to 100 users. Because they support remote management, the VCX V6000/V6100 platforms can be distributed across many sites and efficiently administered from any network location. These platforms allow branch office workers to benefit from the same selection of HP IP telephony, messaging, and conferencing capabilities that main office staff enjoy. In the event of a catastrophic WAN failure that isolates a branch from central servers, VCX V6000/V6100 platforms provide full-feature survivability so that your vital business operations function without incident.

Key features

- Local IP telephony and messaging capabilities
- Full-featured survivability for WAN failures
- Configurability to route traffic to PSTN
- Centralized management capabilities
- Optional redundant power supply and/or RAID

Features and benefits

Quality of Service (QoS)

- **Echo cancellation:** automatically adjusts and removes echo from a telephone call

- **Dynamic programmable jitter buffer:** software-configurable setting designed to ensure voice frames arrive at the same rate

- **Voice activity detection:** proprietary algorithm designed to reduce/filter background noise

- **Comfort noise generation:** provides low audible artificial background noise to improve VoIP communications

- **802.1p/Q VLAN tagging:** delivers data to devices based on the priority and type of traffic; supports IEEE 802.1Q

Performance

- **T.38:** Group 3 fax relay and fax bypass support to send faxes over an IP network

- **Least-cost call routing support:** working in conjunction with the HP VCX system, minimizes long-distance calling charges by routing calls to the most cost-effective gateway

- **Voice compression:** utilizing a full suite of voice CODECs to enhance available bandwidth

Resiliency and high availability

- **Enhanced high availability:** enterprise branch communications systems provide geographic survivability and rapid failover for mission-critical communications; help ensure high availability with a carrier-class architecture and distributed applications to minimize the impact of a WAN failure (for VCX V6000 platform)

- **Optional enhanced high availability:** configured as a VCX V7000 unified communications branch, the VCX V6100 system provides geographic survivability and rapid failover for mission-critical communications; helps ensure high availability with a carrier-class architecture and distributed applications to minimize the impact of a WAN failure (requires purchase of optional components for VCX V6100 platform)

- **Optional RAID disk:** helps ensure resiliency in the event of component failure (requires purchase of optional components to run RAID for VCX V6100 platform)

- **Optional redundant power supply:** provides seamless business continuity and data protection

Configuration

- **Fixed media gateway support:** simplifies transition to IP telephony with integrated, fixed 4 FXO and 2 FXS ports to support analog devices such as phones, fax machines, modems, and intercoms (for VCX V6000 platform)

- **Media gateway support:** streamlines migration to IP communications and provides PSTN connectivity with a full range of integrated VoIP gateways (for VCX V6100 platform)

Investment protection

- **Lower total cost of ownership:** reduce capital and operating expenses and increase network freedom and flexibility by integrating voice gateway modules (for VCX V6100 platform)

- **Analog phone support:** leverage existing investment in analog phones while implementing a full set of PBX features

Ease of use

- **LDAP synchronization with Microsoft® Active Directory, IBM Lotus Domino, Linux OpenLDAP:** Easily integrate, filter, and synchronize employee contact information, thereby simplifying administration and ensuring reliable connections based on the most current information (requires purchase of optional components for VCX V6100 platform)

- **Easy to use:** GUI-driven central management and configuration

Scalability

- **Supported devices:** pay as you grow up to 100 devices (requires purchase of optional components for VCX V6100 platforms)

Additional information

- **Optional mobility for telecommuters:** optional HP VCX IP Telecommuting Module allows remote users the full benefit of their corporate IP telephony system without compromising security

- **Optional multimedia conference bridge:** when businesses require a dense conferencing system to reduce the overhead and cost of expensive third-party conferencing products, then the HP VCX IP Conferencing Module is the choice; capabilities include host and participant Web-based conference controls, instant and emergency conferences with automatic dial-out options, scheduled and meet-me restricted conferences (requires participant passcode), peer-to-peer and one-to-many conferences, and more

- **Optional network management:** use the HP Intelligent Management Center (IMC) and Voice Services Manager (VSM) to configure, monitor, and optimize the performance of media servers, gateways, and endpoints; to monitor VoIP traffic; and to control voice network quality

Product architecture

- **Integrated VCX V7000 branch solution:** economical, high-availability IP telephony platform that delivers carrier-class VCX V7000 SIP-based services to branch sites, enabling full features/functionality in case of a WAN failure; same feature set and administration interfaces for all VCX platforms, including region and branch (for VCX V6000 platform)

- **Optional integrated VCX V7000 branch solution:** the VCX V6100 platform is an extremely flexible solution, which can operate as either a standalone gateway chassis or as a fully survivable remote branch system on a distributed VCX V7000 network; can be equipped with an optional CPU module and VCX V6100 HD (sold separately) for maintaining full features/functionality in case of a WAN failure; has the same feature set and administration interfaces for all VCX platforms, including region and branch

- **Integrated server:** IP telephony and IP messaging modules running on Linux OS (requires purchase of optional components for VCX V6100 branch)

- **Standards-based IP-PBX:** support for standard PBX and advanced telephony and messaging features based on the IETF Session Initiation Protocol (SIP) standards; support for third-party SIP-based applications and devices (requires purchase of optional components for VCX V6100 platform)

User productivity

- **Unified Communications:** increase employee collaboration thru the audio, video, instant messaging, file sharing & presence capabilities within the HP Desktop Communicator; extend the MS environment with HP Desktop Communicator Outlook Edition add-on to enable click-to-call/conference via MS Outlook, to capture and retrieve call notes with MS Journal, and to perform desktop call recording; HP VCX is fully integrated with Lotus Sametime (requires purchase of optional items for VCX V6100 platform)

- **Unified Messaging:** consolidate users' voicemail, email and faxes into a single inbox for flexible, location-independent retrieval and management; schedule appropriate times when messages are delivered; send voicemails to individuals or groups using extensive and easy-to-maintain distribution lists; set up find me/follow me services to conveniently manage one's own anywhere, anytime access to ensure important calls are never missed (requires purchase of optional components for the V6100 platform)

Warranty and support

- **1-year warranty:** with advance replacement and 30-calendar-day delivery (available in most countries)

- **Electronic and telephone support:** limited electronic and telephone support is available from HP; refer to www.hp.com/networking/warranty for details on the support provided and the period during which support is available

- **Software releases:** refer to www.hp.com/networking/warranty for details on the software releases provided and the period during which software releases are available for your product(s)

- **Media warranty:** removable media on which HP distributes the software is warranted for ninety (90) days from purchase

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Specifications

	HP VCX V6000 Enterprise Branch Communications Platform (JE355A)	HP VCX V6100 Enterprise Branch Communications Platform (JE381A)
Ports	4 RJ-11 FXO ports	6 voice interface module I/O slots
	2 RJ-11 FXS ports	1 RJ-45 auto-sensing 10/100 port (IEEE 802.3 Type 10Base-T, IEEE 802.3u Type 100Base-TX); Duplex: half or full
	1 RJ-45 auto-sensing 10/100 port (IEEE 802.3 Type 10Base-T, IEEE 802.3u Type 100Base-TX); Duplex: half or full	1 RS-232C
	1 RS-232C	
Physical characteristics		
Dimensions	13.82(d) x 19.0(w) x 1.75(h) in. (35.1 x 48.31 x 4.45 cm) (1U height)	13.82(d) x 19.0(w) x 1.75(h) in. (35.1 x 48.26 x 4.45 cm) (1U height)
Weight	12.13 lb. (5.50 kg), Fully loaded shipping weight	12.13 lb. (5.50 kg), Fully loaded shipping weight
Mounting	Mounts in EIA-standard 19 inch telco rack or equipment cabinet (hardware included)	Mounts in EIA-standard 19 inch telco rack or equipment cabinet (hardware included)
Environment		
Operating temperature	32°F to 113°F (0°C to 45°C)	32°F to 113°F (0°C to 45°C)
Operating relative humidity	10% to 90%, non-condensing	10% to 90%, non-condensing
Non-operating/Storage temperature	14°F to 158°F (-10°C to 70°C)	14°F to 158°F (-10°C to 70°C)
Electrical characteristics		
Voltage	100-240 VAC	100-240 VAC
Frequency	50 / 60 Hz	50 / 60 Hz
Safety	UL 60950-1; EN 60950-1	UL 60950-1; EN 60950-1
Emissions	EN 55022 Class B; EN 55024; FCC CFR 47 Part 15 Class B; EN 300 386; EN 61000-3-2; EN 61000-3-3	EN 55022 Class B; EN 55024; FCC CFR 47 Part 15 Class B; EN 300 386; EN 61000-3-2; EN 61000-3-3
Notes	VCX V6000 does not accept additional gateway modules. Only redundant power supply and RAID disk can be added to this platform.	No CPU module, VCX hard disk (HD) or analog/digital gateway interface modules included. Must purchase separately. Refer to accessories. • CPU and VCX HD required to run as HP VCX V7000 unified communications branch Integrated Gateways Options • Supports up to a maximum of six (6) analog modules • Supports up to a maximum of five (5) BRI modules • Supports up to a maximum of four (4) digital spans
Services	3-year, parts only, global next-day advance exchange (UW146E) 3-year, 4-hour onsite, 13x5 coverage for hardware (UW147E) 3-year, 4-hour onsite, 24x7 coverage for hardware (UW150E) 3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (UW153E) 3-year, 24x7 SW phone support, software updates (UW156E) 4-year, 4-hour onsite, 13x5 coverage for hardware (UW148E) 4-year, 4-hour onsite, 24x7 coverage for hardware (UW151E) 4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UW154E) 4-year, 24x7 SW phone support, software updates (UW157E) 5-year, 4-hour onsite, 13x5 coverage for hardware (UW149E) 5-year, 4-hour onsite, 24x7 coverage for hardware (UW152E) 5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UW155E) 5-year, 24x7 SW phone support, software updates (UW158E) 3 Yr 6 hr Call-to-Repair Onsite (UW159E) 4 Yr 6 hr Call-to-Repair Onsite (UW160E) 5 Yr 6 hr Call-to-Repair Onsite (UW161E) Refer to the HP website at www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.	3-year, parts only, global next-day advance exchange (UW146E) 3-year, 4-hour onsite, 13x5 coverage for hardware (UW147E) 3-year, 4-hour onsite, 24x7 coverage for hardware (UW150E) 3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (UW153E) 3-year, 24x7 SW phone support, software updates (UW156E) 4-year, 4-hour onsite, 13x5 coverage for hardware (UW148E) 4-year, 4-hour onsite, 24x7 coverage for hardware (UW151E) 4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UW154E) 4-year, 24x7 SW phone support, software updates (UW157E) 5-year, 4-hour onsite, 13x5 coverage for hardware (UW149E) 5-year, 4-hour onsite, 24x7 coverage for hardware (UW152E) 5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UW155E) 5-year, 24x7 SW phone support, software updates (UW158E) 3 Yr 6 hr Call-to-Repair Onsite (UW159E) 4 Yr 6 hr Call-to-Repair Onsite (UW160E) 5 Yr 6 hr Call-to-Repair Onsite (UW161E) Refer to the HP website at www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.

HP VCX V6000/V6100 Enterprise Branch Communications Series accessories

Modules

HP VCX V6000 V6100 Connect 100 (80GB) HDD RAID Module (JE273A)

HP VCX V6100 Connect 100 4-port FXO Module (JE359A)

HP VCX V6100 Connect 100 4-port FXS Module (JE360A)

HP VCX V6100 Connect 100 4-port BRI Module (JE361A)

HP VCX V6100 Connect 100 1-span E1/T1 Module (JE382A)

HP VCX V6100 Connect 100 2-span E1/T1 Module (JE383A)

HP VCX V6100 4-span E1/T1 Module (JE384A)

Power Supply

HP VCX V6000 V6100 Connect 100 Power Supply Module (JE272A)

License

HP VCX V6000 IP Telephony and IP Messaging 9.x License (JE418A)

HP VCX V6100/Enterprise Branch Communications MIM IP Telephony and IP Messaging 9.x License (JE420A)

IP Telephony Modules

HP VCX V6100 Hard Disk R9.0 Module (JE356A)

HP VCX V6100 CPU and CM Module Set (JE271A)

To learn more, visit www.hp.com/networking